

8. The receiver of claim 3, **characterized** in that it comprises means (6, FX3) for controlling the cut-off frequency of low-pass filtering in order to perform channel filtering according to the selected radio interface.

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9. The receiver of claim 3, **characterized** in that it comprises means for implementing channel filtering realized in a digital manner.

10. The receiver of claim 3, **characterized** in that it comprises means (7, GX2) for controlling the gain of the second amplifier.

11. The receiver of claims 3, **characterized** in that the signal processing path comprises substantially the same components for connecting to the different radio interfaces.

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14. The transmitter of claim 12, **characterized** in that it comprises means for implementing channel filtering realized in a digital manner.

15. The transmitter of claim 12, **characterized** in that the means (10, 11) for generating a TX mixing signal at the transmit frequency comprises a TX synthesizer (13, S2) and controllable frequency divider (12, N2) for dividing the frequency of the output signal generated by the TX synthesizer.

17. The transmitter of claim 12, **characterized** in that it comprises means (17, GX3) for controlling the gain of the transmitter amplifier.

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18. The transmitter of claim 12, **characterized** in that it comprises means (18, BX) for controlling the operating frequency band of the transmitter amplifier.

19. The transmitter of claim 12, **characterized** in that it comprises a bandpass filter for filtering the amplified transmission signal at the carrier frequency, and means for selecting the pass band of the transmitter bandpass filter (3, FX2) so that it corresponds to the transmission frequency.

20. The transmitter of claim 12, **characterized** in that the signal processing path comprises substantially the same components for connecting to the different radio interfaces.